

Inventors: Peter R. David

**ABSTRACT**

**DEVICE FOR DETECTING PRECIPITATE  
FORMATION IN MICROVOLUMES**

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A microfluidic device is provided that comprises: a card shaped substrate having first and second opposing faces; one or more microvolumes at least partially defined by a first face of the card shaped substrate; and one or more grooves at least partially defined by a second face of the card shaped substrate;

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wherein a lateral footprint of at least a portion of the one or more grooves overlaps with a lateral footprint of at least one of the one or more microvolumes.